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APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,512	11/24/2003	Anthony G. Karandinos	1999B060 / 3	5158
23455	590 06/30/2006		EXAMINER	
EXXONMOBIL CHEMICAL COMPANY 5200 BAYWAY DRIVE			RABAGO, ROBERTO	
P.O. BOX 214			ART UNIT	PAPER NUMBER
BAYTOWN, TX 77522-2149			1713	
			DATE MAILED: 06/30/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Summany	10/720,512	KARANDINOS ET AL.					
Office Action Summary	Examiner	Art Unit					
TI. MAN INO DATE AND	Roberto Rábago	1713					
The MAILING DATE of this communication app Period for Reply	oears on the cover sheet with the	ne correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS a, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. FONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 13 A	<i>pril</i> 2006.						
2a) This action is FINAL . 2b) This							
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11	I, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>14-16 and 41-51</u> is/are pending in the	e application.						
4a) Of the above claim(s) <u>41-50</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>14-16 and 51</u> is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/c	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct		-					
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Of	ffice Action or form PTO-152.					
Priority under 35 U.S.C. § 119		•					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 		9(a)-(d) or (f).					
2. Certified copies of the priority document	• •						
3. Copies of the certified copies of the prio	•	eived in this National Stage					
application from the International Burea * See the attached detailed Office action for a list	, ,,,	eived					
See the attached detailed Office action for a list	of the certified copies not reci	eived.					
Attachment(s)	n □	Mary (DTO 442)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Inform	nal Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/13/2006 has been entered.

Claim Rejections - 35 USC § 112

- 2. Claims 14-16 and 51 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- (a) In claim 14 (and claims 15,16 and 51 by dependency), the scope of "MFR" cannot be determined because the claim does not state the test conditions.
- (b) In claims 14 and 15 (and claims 16 and 51 by dependency), the phrase "propylene sequences" is indefinite because the claim does not indicate the monomer length for determining a "sequence".

Applicants' arguments filed 4/13/2006 have been fully considered but they are not persuasive. Regarding (a), the amendment adding a temperature for the MFR

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measurement does not overcome the rejection because a melt flow rate measurement is meaningless without an indication of both the temperature and the load. The MI limitation of claim 14 is, by itself, also inadequate; however, the specification clearly states at page 68, lines 2-3 under Example 9: "All measured Melt Index (MI) values were measured at 190°C, with a 2.16 kg weight." However, the specification and claims clearly distinguish between MI and MFR, and the specification is silent on the load required for the MFR limitation. ASTM 1238 (attached) clearly states that the test conditions must specify both temperature and load (see section 8.1). There is no single standard test condition for ethylene/propylene copolymers; however, a variety of "Standard Test Conditions" are provided in Table 1. As shown in the table, a temperature of 230°C is indicated with five different loads ranging from 1.2 kg through 21.6 kg. The difference in MFR over this load range could vary much as several hundred-fold, and the claims could also intend for a different, non-standard load to be used; therefore, an indication of both the temperature and the load is required for the MFR limitation to be clearly understood.

Regarding (b), applicants concede, "if every propylene sequence were a diad, the Examiner's reasoning would stand". In fact, a diad is the fundamental tacticity relationship between any two adjacent monomer units, and therefore <u>every</u> sequence, regardless of whether the overall length is diad triad, tetrad, or pentad, consists of diads. Put another way, a percentage of <u>diads</u> can be measured in every polymer for which triads, tetrads, or pentads can also be measured, with the percentage of diads always exceeding the percentage of triads, tetrads, or pentads. Furthermore, claims

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are examined using the broadest reasonable scope which is consistent with the specification; therefore, since the sequence length is not specified, then a sequence length of two is within the scope of the claims. As was previously stated, and to which applicants appear to have agreed, for a sequence length of two, the claimed limitation regarding percentages of isotactic and syndiotactic sequences is entirely meaningless because it includes every polymer for which tacticity sequences are definable. It appears that applicants intend for the limitation directed to the percentage of isotactic or syndiotactic orientations to have some meaning; however, as currently drafted in the claims, that meaning cannot be determined.

Claim Rejections - 35 USC § 102

3. Claims 14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakagawa et al. (EP 870 794) for the reasons set forth in item 7 of the Office action mailed 6/24/2005.

Applicants' arguments filed 4/13/2006 have been fully considered but they are not persuasive. The amendment directed to MFR does not preclude the cited reference example because the claim does not state how the measurement was made, for the reasons advanced above.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rábago whose telephone number is (571) 272-1109. The examiner can normally be reached on Monday - Friday from 8:00 - 4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roberto Rábago Primary Examiner

Zohnt Cata

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RR June 23, 2006